

Date: Tue, 5 Oct 93 04:30:07 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1179
To: Info-Hams

Info-Hams Digest Tue, 5 Oct 93 Volume 93 : Issue 1179

Today's Topics:

Another data point (callsign 9-land)
eliminating RFI from PC on hf bands
HTs Airlines and Morris
Hunter harrassment
Looking for Swiss hams
Motorola ad in QST? (2 msgs)
New HF Rig (2 msgs)
Q-codes.
Regenerating PL tones thru a repeater.
Schematics for Yaesu FT-227
Stop hunter Harrassment in Michigan
Tech License Exam San Jose, CA
TS450 as monostatic RADAR
Understanding Antennas

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 5 Oct 93 04:53:30 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!uxa.cso.uiuc.edu!epm52766@network.ucsd.edu
Subject: Another data point (callsign 9-land)
To: info-hams@ucsd.edu

Another data point for class C callsigns in 9-land:

Friend took test on Aug 14, received license Oct 4.

N9VCT

73, de N9KET

Date: 30 Sep 93 15:47:28 GMT
From: ogicse!uwm.edu!spool.mu.edu!sol.ctr.columbia.edu!usenet.ucs.indiana.edu!
master.cs.rose-hulman.edu!news@network.ucsd.edu
Subject: eliminating RFI from PC on hf bands
To: info-hams@ucsd.edu

> One good solution that a local ham used was to switch to a laptop. He
said
> the noise went away completely.
>
> Greg Lapin KD9AZ

My friend got rid of most of his rfi by unplugging the printer cable. My
friend got rid of most of his rfi by unplugging the printer cable. My
friend got rid of most of his rfi by unplugging the printer cable. My
friend got rid of most of his rfi by unplugging the printer cable. My
friend got rid of most of his rfi by unplugging the printer cable. My
friend got rid of most of his rfi by unplugging the printer cable.

73 de Jack, K9CUN

Date: Mon, 4 Oct 93 14:25:52 GMT
From: mercury.hsi.com!a3bee2.radnet.com!cyphyn!randy@uunet.uu.net
Subject: HTs Airlines and Morris
To: info-hams@ucsd.edu

Jeff Herman (jherman@uhunix3.uhcc.Hawaii.Edu) wrote:
: In article <748711640snx@skyld.tele.com> jangus@skyld.tele.com (Jeffrey D.
Angus) writes:
: >
: > In article <27o3fjINNro8@topaz.bds.com> ron@topaz.bds.com writes:
: >
: > [apparently quoting jangus@skyld.tele.com]
: > >
: > > The Captain did come on the intercom and announce that "transmitting
: > > devices" were not allowed to be energized while the plane was in the
: > > air due to FAA regulations. (They did not cite which regulations in
: > >
: > > Section 91.21. Why do you insist on causing trouble?
: >

:
: Did you really mean to call the pilot of that aircraft a 'petty bureaucrat'?
:
: Someone correct me if I'm wrong (what a silly thing to say on this net...)
: but I believe a pilot may implement, within reason, any policy which he/she
: feels is necessary for the safety of the aircraft, regardless of the standing
: policies imposed by the company. If that pilot believes that transmitting
: devices might, no matter how small the chance, interfere with navigation,
: then I am very glad that he would say something.
:
: Jeff NH6IL (ex: WA6QIJ et al)

You are not wrong...and it's more than that, too.

Using a transmitter....even many receivers (the local oscillator, is why)
inside an aeroplane, you are right next to the antenna system...the body of
the craft is part of the system.

Someone sending, or even receiving, will screw up the navigation gear,
(which relies heavily on radio), plus the collision avoidance systems.

The pilots job is to fly the plane and be the ultimate person who has
final say on what goes on in a plane....not answer questions of that sort.

If he had really wanted some answers, he should have gone to the info desk
and find who to speak to about that.....he'd get more or less what I just
said.

Rules are there for a reason! They are not there just to harrass people...
it's just that they don't want to have to explain every little detail
to everyone who asks....those people are EXPECTED to go look up the
reasons on their own.

Now...with net access's, a person can find out ALL KINDS of stuff!

They have NO excuse now to not know.

:
:
--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

Date: Mon, 4 Oct 1993 19:55:07 GMT
From: spsgate!mogate!newsgate!nuntius@uunet.uu.net
Subject: Hunter harrassment
To: info-hams@ucsd.edu

Subject: Hunter harrassment

From: Derek Wills, oo7@emx.cc.utexas.edu

In article <28kb50INNirb@emx.cc.utexas.edu> Derek Wills,
oo7@emx.cc.utexas.edu writes:

>swood@vela.acs.oakland.edu (Scott Wood) rabbits on and on:

>

>>>Basically the law goes after anyone intentionally [sic] obstructing or
>>>hindering the hunter or trapper in the legal taking of game. In last
>>>years [sic] case, DNR was called out to handle the incedent [sic].
etc...

>

>

>Could someone explain to me what this has to do with amateur radio?

>Are we supposed to be out there protecting these persecuted hunters?

>

>

> >>Oct. 01 Opening day of early Archery Deer season in Michigan!!!!!!

>

> Yay! Kill them deer!!!!

>

> >>Oct. 03 Opening day of Duck/Waterfowl season (U.P. of Michigan)

>

> Hey!! Shoot them ducks!! Who needs stupid waterfowl!!

>

> >>Oct. 04 Opening day of Michigan fall Wild Turkey (permit only)

>

> Turkeys? BLAM BLAM!!

>

> >>All Month Small game season is still open!!! (rabbit, squirrel, bird)

>

> Goody goody!! Smash rabbits!! Kill squirrels!! Squash
birds!!

>

>KILL!! SQUASH!! QRZ THE FREQUENCY!! BANG!!

>

>So where do I go to harrass these fine sensitive yoomans?

>

>

>Derek "BANG!! DIE!!" Wills (AA5BT, G3NMX)

>Department of Astronomy, University of Texas,

>Austin TX 78712. (512-471-1392)

>oo7@astro.as.utexas.edu

Is there a way that we can cut off Derek's coffee supply?

Date: 4 Oct 1993 20:17:23 GMT
From: elroy.jpl.nasa.gov!sdd.hp.com!col.hp.com!srngenprp!news.dtc.hp.com!hplextra!
hpscit.sc.hp.com!icon.rose.hp.com!hpchase.rose.hp.com!cmoore@ames.arpa
Subject: Looking for Swiss hams
To: info-hams@ucsd.edu

Next year I will be vacationing in Switzerland for 3 weeks. I am looking for
a someone I could talk to before, during and after my stay there. Are there
any Swiss hams out there, preferably near Lungern, that would like to set
up a sched?

Chris Moore
N6IYS
cmoore@mothra.rose.hp.com

Date: 4 Oct 93 16:24:41 CDT
From: usc!yeshua.marcam.com!zip.eecs.umich.edu!umn.edu!mmm.mmm.com!mmc.mmmg.com!
timbuk.cray.com!hemlock.cray.com!cherry10!dadams@network.ucsd.edu
Subject: Motorola ad in QST?
To: info-hams@ucsd.edu

In article p0i@panix.com, dannyb@panix.com (danny burstein) writes:
|excuse the ignorance here, but since I don't get QST (and the library I
|could check is closed until Monday) could someone please post or email a
|summary of what the ad said?
|
|thanks
|dannyb@panix.com
|
|kb2ddy

Here is the add which appeared on p. 161 of my October 1993 QST:

A T T E N T I O N

PUBLIC SAFETY ANNOUNCEMENT

Tampering with Motorola's
Communication Technology is
Nothing Short of a Crime.

Motorola has been at the forefront of communications technology for more than 60 years. Today, we offer a greater array of communications products than ever before. We are proud of our customers which are of unparalleled public importance.

Theft of communications services and so-called High-Tech piracy threaten the entire communication industry's reputation for reliability. This conduct not only damages the reputation of Motorola, Inc. and the communications industry, but undermines the very integrity of America's public and private communications services.

Motorola intends to combat this conduct by aggressively maintaining and enforcing its proprietary rights to its hardware and software technology. Anyone who has knowledge of illegal activities or has questions concerning such activities is urged to contact Motorola Inc. immediately at 1-800-325-4036. Contacts will be kept confidential and may be made anonymously.

(Add is followed by trademarks and the note that the trademarks are trademarks of Motorola, Inc. (c) 1993 Motorola, Inc.)

At the bottom of the add is a drawing of several comrades representative of the working class. (A doctor, a policeman, man w/ hardhat, man w/ overalls, fireman, operator, nurse, woman w/ book, man w/ tie.) There are no radios or radio equipment in the drawing. The drawing is quite reminiscent of stalanistic propoganda.

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Kilo Golf Zero India Oscar -(KG0IO)-

Date: 5 Oct 1993 09:37:51 GMT
From: nothing.ucsd.edu!brian@network.ucsd.edu
Subject: Motorola ad in QST?
To: info-hams@ucsd.edu

ben@nj8j.atl.ga.us (Ben Coleman) writes:
>... My experience has been that many hams think
>nothing about pirating software willy-nilly.

I suspect you'll find that the public in general thinks nothing of making copies of software - 'piracy', as the people who theoretically stand to lose money by this practice term it.

And although I make my living from software, I suspect that if Congress ever came to codify the will of the people in law, you'd find that making personal copies of software at no charge would become completely legal, since that's what the great majority of the public does.

But don't hold your breath.

I seem to recall hearing an interview in the early 80s that two out of every three copies of WordStar hadn't been paid for. I rather expect it's gotten worse since then.

- Brian

Date: 4 Oct 1993 23:40:27 -0400
From: news.service.uci.edu!paris.ics.uci.edu!csulb.edu!library.ucla.edu!agate!spool.mu.edu!sdd.hp.com!hpscit.sc.hp.com!hpuerca.atl.hp.com!news@network.ucsd.edu
Subject: New HF Rig
To: info-hams@ucsd.edu

In <9310021637.AA24145@ucsd.edu>
William=E.=Newkirk%Pubs%GenAv.Mlb@ns14.cca.CR.rockwell.COM writes:

>>junk just because they are here in America (heck, I drive a Volvo)...
>>but I would like us all to look carefully at the Ten Tec offerings.
>>Hard to do, now that our ham radio stores don't carry them.

>this assumes that you are near a ham radio store. there aren't all that many
>storefronts around unless you're in a big city.

>most are, but they bear a striking resemblance to telephones. what Ten-Tec is
>missing out on is coverage in the AES/HRO etc. catalogs where everything is
>roughly shown. you'd have to work to find the Ten-Tec stuff.

I think Ten-Tec will go away soon. They have dropped dealers. OK, they have some valid complaints.

But they appear to have stopped attending Hamfests. They were not at the Atlanta Hamfest this year. (Nor last year to my recollection).

Not that Atlanta was that great this year, but it is the largest GA hamfest, and the other major vendors were there.

There are lot's of loyal Ten-Tec types in the South, and when they do not even to bother to show, I wonder.

I was considering purchase of a Scout. I attended specifically to look at one. They were not there. How is a person supposed to make a buying decision? (No dealer, etc)

I suspect they have given up on the ham market. The big question is: do they have enough commercial business to keep going?

I also think Ten-Tec missed several bets. The lack of a general coverage rcvr locked me out for 2 major radio purchases. (I picked a TS-430, and later a TS-400 AT instead.) I see no excuse on an HF rig not to provide general coverage capability. (If they were still using crystals for the LO to switch bands, then they were way behind technically.)

Anyway, the new rigs look pretty good, but still lack features. I would consider them, but not if I cannot look at a rig without driving to TN!

Alan Barrow km4ba | If a little knowledge.....
jab@atl.hp.com | is a dangerous thing.....
...!gatech!kd4nc!km4ba!alan | then what is the Anti-Dote???

Date: 4 Oct 1993 21:59:37 -0700
From: news.service.uci.edu!paris.ics.uci.edu!not-for-mail@network.ucsd.edu
Subject: New HF Rig
To: info-hams@ucsd.edu

In <28qqbb\$91t@hpuerca.atl.hp.com> jab@hpuerca.atl.hp.com (Alan Barrow) writes:

.....
>I think Ten-Tec will go away soon. They have dropped dealers. OK, they
>have some valid complaints.
>But they appear to have stopped attending Hamfests. They were not at the
>Atlanta Hamfest this year. (Nor last year to my recollection).

This is a shame. I will talk to them about this when I next call them.

>There are lot's of loyal Ten-Tec types in the South, and when they do
>not even to bother to show, I wonder.

Huh? In the South? I find loyal Ten Tec guys up North and out here in the West, too. I have not noticed any differences in the number of Ten Tec rigs I run into in 4-land versus any other call district (in 25 years of HF).

I DO believe that there are a lot of loyal Ten Tec guys out in Europe. I have seen some write that they like the Ten Tec stuff because the front ends are more bulletproof (for 40) than the latest, greatest Kewood, Icom and Yaesu radios. This says a LOT, since Europe has a lot of local b'cast there on 40, and the front end has to handle a lot of garbage.

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>I was considering purchase of a Scout. I attended specifically to look
>at one. They were not there. How is a person supposed to make a buying
>decision? (No dealer, etc)
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Again, I agree. A shame. I have heard a lot of Scouts locally, and figure maybe if you ask around you can find one to play with.

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>I suspect they have given up on the ham market. The big question is: do
>they have enough commercial business to keep going?
```

I don't believe so. There is an OMNI-VII coming and a Paragon II, according to my sources.

>I also think Ten-Tec missed several bets. The lack of a general coverage
>rcvr locked me out for 2 major radio purchases. (I picked a TS-430, and
>later a TS-400 AT instead.) I see no excuse on an HF rig not to provide
>general coverage capability. (If they were still using crystals for the
~~~~~

>L0 to switch bands, then they were way behind technically.)

Well, this may be a matter of what you are looking for. If you are referring to the crystal mixing they use, it seems to produce a quieter receiver than the other rigs, and many a radio expert likes a quiet receiver. I do understand that other designs are getting better, but from the local experts I trust, the Ten Tec's are still the best in this respect, unless you pay a thousand more for another radio maybe....

Just my two cents.

Clark

• • • • •

Clark Savage Turner, Graduate Student Researcher  
Safety Critical Software Group home:  
Department of Info. and Computer Science 1514 Verano Place  
Irvine, CA. 92717 Irvine, CA. 92715  
(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.  
ARRL Volunteer Counsel

-----  
Date: Mon, 4 Oct 93 14:37:39 GMT  
From: mercury.hsi.com!a3bee2.radnet.com!cyphyn!randy@uunet.uu.net  
Subject: Q-codes.  
To: info-hams@ucsd.edu

Jeff Herman (jherman@uhunix3.uhcc.Hawaii.Edu) wrote:  
: In article <8gbG7eS00UhB84=1t9@andrew.cmu.edu> ee2g+Charles@andrew.cmu.edu  
writes:

: >  
: >I'm wondering if the Q code QAT means anything?  
: >  
: >Any ideas out there in net land?  
: >  
: >  
: >N3QAT  
: >Chuck Kamas  
: >ee2g+Charles@andrew.cmu.edu  
:  
: Ah yes, this Q-code had a very unusual origin: Most folks don't realize  
: this but the small fruit called a kumquat has a laxative effect similar  
: to the prune. Several oldtimers used to gather on 80 meters CW and

We still do. There's a QAT net on 3700.5 kc

: discuss the wonders of the of the kumquat. Well, it was a rather long  
: word to spell out in CW so they all agreed to make up the Q-code QAT;  
: in use one would ask: "QAT?" meaning "Did you have your kumquats today",  
: to which the other would respond "QAT5" - "I had 5 kumquats today".

The worlds record for ingesting kumquats with-in 24 hours, while on the  
air, is 36.

This record is held by W1Y0L , Artie. ( no N-net access...just airways)  
He did it in 1976, to help celibrate USA bi-centennial.

:  
: Aren't Q-codes and their history great?  
:  
: Jeff NH6IL  
:  
:

--

Randy KA1UNW                      If you get a shock while  
                                 servicing your equipment,                      "Works for me!"  
randy@192.153.4.200                      DON'T JUMP!                      -Peter Keyes  
                                 You might break an expensive tube!

-----  
Date: 5 Oct 93 01:33:11 GMT  
From: munnari.oz.au!metro!news.ci.com.au!eram!dave@network.ucsd.edu  
Subject: Regenerating PL tones thru a repeater.  
To: info-hams@ucsd.edu

I've often thought of building a CTCSS scanner, then I noticed that one of the tones is 100 Hz (or close to it). Which culturally-impaired person didn't think of 50Hz mains when they specified those frequencies?

ObNit: "PL" is a trademark of somebody or other; Motorola I think.

--  
Dave Horsfall (VK2KFU)                      VK2KFU @ VK2RWI.NSW.AUS.OC                      PGP 2.3  
dave@esi.COM.AU                      ...munari!esi.COM.AU!dave                      available

-----  
Date: Mon, 4 Oct 1993 21:00:21 GMT  
From: pipex!howland.reston.ans.net!torn!nott!cunews!revcan!rubicon!  
cowan@uunet.uu.net  
Subject: Schematics for Yaesu FT-227  
To: info-hams@ucsd.edu

I have a Yaesu FT-227 that another ham gave me. Unfortunately, it needs some work and I don't have the schematics for it. Would anyone have the manual/schematic for this beast?

-----  
Date: Mon, 4 Oct 93 23:17:20 GMT  
From: mercury.hsi.com!a3bee2.radnet.com!cyphyn!randy@uunet.uu.net  
Subject: Stop hunter Harrassment in Michigan  
To: info-hams@ucsd.edu

Hey tim!

                 In '71 I visited some friends out where you are.  
Not a bad place.

Whats with this hunter jazz? We don't need to hear about this....  
He cross posted it into some other electronics groups too.  
Crying out loud...thats CB material...he should send it all in there.

--

Randy KA1UNW                      If you get a shock while  
                                 servicing your equipment,                      "Works for me!"  
randy@192.153.4.200                      DON'T JUMP!                      -Peter Keyes  
                                 You might break an expensive tube!

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Date: 4 Oct 93 18:40:57 GMT  
From: csus.edu!netcom.com!netcomsv!cruzio!cruzio!douglas@decwrl.dec.com  
Subject: Tech License Exam San Jose, CA  
To: info-hams@ucsd.edu

Technician License Exam

I would appreciate having exam dates and locations in the Santa Cruz, CA San Jose, CA area. What's the best source for the Technician Exam questions; are they available on the net?

Thanks, Douglas M Norris, KB6UOL

-----  
Date: 4 Oct 93 14:55:03 GMT  
From: agate!howland.reston.ans.net!math.ohio-state.edu!cs.utexas.edu!asuvax!ennews!anasaz!misty!john@ucbvax.berkeley.edu  
Subject: TS450 as monostatic RADAR  
To: info-hams@ucsd.edu

dihi@bsdihl.atr.bso.nl (Dick Hissink) writes:

>I read an interesting article about the possibility to predict DX  
>conditions by measuring echo's transmitted on HF. There is an example  
>of a simple monostatic radar. To do this you have to make a pulsgenerator,  
>making pulses from 1-5 ms, with an interval of about 50 - 200 ms, that  
>keys the transmitter.

>A simple pulsgenerator is easy made around a NE555 timer. To make the Rx  
>detector it is necessary to amplify the MF signal about 25 times, and  
>than rectify the signal. The output is than connected to an displayed  
>on an oscilloscope (time base 5ms/div). I.e. an echo received between  
>12 - 17 ms equals a distance of 1800 - 2550 km.

>Question 1: Are there hams having experience with this kind of simple  
>DX prediction tests?

My father used to do research using one of these. They do work. I think the power was somewhere between 1 and 5 kw.

--

DISCLAIMER: These views are mine alone, and do not reflect my employer's!  
John Moore 7525 Clearwater Pkwy, Scottsdale, AZ 85253 USA (602-951-9326)  
john@anasazi.com Amateur call:NJ7E Civil Air Patrol:Thunderbird 381  
- - Don't forget the thought which by it's very nature cannot be remembered!- -  
- - - - - Storm Chasers Do It in All Kinds of Weather! - - - - -

-----  
Date: 4 Oct 93 14:06:49 GMT  
From: ogicse!uwm.edu!cs.utexas.edu!usc!aludra.usc.edu!not-for-mail@network.ucsd.edu  
Subject: Understanding Antennas  
To: info-hams@ucsd.edu

Hello all,

I have a couple of basic questions regarding antenna theory. I was reading a book on the subject and, in a chapter about antenna performance, lists a chart showing "theoretical table of antenna gain". In the chart it shows a Half-Wave Dipole as having a 2.1 db gain over an isotropic radiator. Similarly, a 5/8 wave has a theoretical 3.3 db gain over the isotropic radiator.

Does anyone know how they arrive at these numbers? In specific, what are the formulas? I am interested in just the formulas for "whip" style antennas (1/4 wave, 1/2 wave, 5/8 wave). Does the 1/4 wave have any gain over the imaginary isotropic radiator?

Also, the book mentions that a 1/4 wave "whip" needs a ground plane to function correctly. Why does a 1/2 or 5/8 wave not need a ground plane to "function correctly" (like the 1/4 wave)?

Lastly, I have seen adds for 1/4 wave mobile antennas which state "no ground plane required", most are on-glass antennas. How do these antennas "function correctly"? Would it be better to have a ground plane, or do they create an artificial ground plane?

Any help and all responses are appreciated. Please send mail directly to me at: asplund@aludra.usc.edu.

Thank you in advance for the help!  
--Daryl

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End of Info-Hams Digest V93 #1179

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